

## ThinkPad W550s Platform Specifications

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i5 / i7 Processor							
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics
	i5-5300U	2	4	2.3 GHz	2.9 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500
	i7-5500U			2.4 GHz	3 GHz	4MB		
i7-5600U	2.6 GHz			3.2 GHz	4MB			
Graphics	Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 2560x1600@60Hz (VGA)							
Chipset	Intel SoC (System on Chip) platform							
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							
Display	<i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS							
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits							
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory							
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot							
Optical	None							
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)							
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>• 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li><li>• 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li><li>• 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li><li>• 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li></ul>							
WWAN (optional)	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>• Wireless WAN upgradable</li><li>• Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card</li><li>• Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card</li></ul>							
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider							
Dimensions <sup>3</sup>	<i>15.6" (WxDxH):</i> 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm <i>15.6" Touch (WxDxH):</i> 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm							
Weight <sup>2</sup>	<i>Models</i>	<i>No + 6-cell</i>		<i>3-cell + 3-cell</i>		<i>3-cell + 6-cell</i>		
	<i>Non-touch</i>	5.01 lb / 2.27 kg		4.78 lb / 2.17 kg		5.12 lb / 2.32 kg		
	<i>Multi-touch</i>	-		5.09 lb / 2.31 kg		5.43 lb / 2.46 kg		
Case material	<i>Display cover:</i> Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); <i>Bottom:</i> Glass-Fiber Reinforced Plastic							

Smart card reader	<i>Optional:</i> Smart card reader			
Multicard reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector			
Camera	HD720p resolution, low light sensitive, fixed focus			
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight			
UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Security	Power-on password, hard disk password, supervisor password, security keyhole			
Security chip	Trusted Platform Module, TCG 1.2-compliant			
ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures			
vPro (optional)	Intel vPro Technology			
Fingerprint reader	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor			
Internal battery	<i>Optional:</i> Integrated Li-Polymer 3-cell (44Wh)			
External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
Max battery life <sup>10</sup>	<i>Models</i>	<i>3-cell + 3-cell</i>	<i>3-cell + 6-cell 48Wh</i>	<i>3-cell + 6-cell 72Wh</i>
	<i>Battery life</i>	12.7 hr	17.3 hr	21.8 hr
AC adapter	65W Slim or 65W AC adapter			
Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <ul style="list-style-type: none"><li>• Lenovo Solution Center</li><li>• Lenovo SHAREit</li><li>• ThinkVantage Product Recovery</li><li>• Rescue and Recovery™</li><li>• ThinkVantage System Update</li><li>• PC Device Stage</li><li>• Adobe® Reader®</li><li>• Evernote®</li><li>• Skype™</li><li>• Maxthon Cloud Browser</li><li>• Microsoft® Office preloaded; purchase a product key to activate</li><li>• Norton™ Internet Security (30 days of virus definitions)</li></ul> <i>For ISV certifications, please visit <a href="http://www.lenovo.com/support/ISV">www.lenovo.com/support/ISV</a></i>			
	<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <ul style="list-style-type: none"><li>• Lenovo Solution Center</li><li>• Lenovo SHAREit</li><li>• Lenovo Companion</li><li>• ThinkVantage System Update</li><li>• PC Device Stage</li><li>• Weather Channel</li><li>• Evernote</li><li>• Maxthon Cloud Browser</li><li>• Bing Translator</li><li>• Norton Studio</li><li>• Microsoft Office preloaded; purchase a product key to activate</li><li>• Norton Internet Security (30 days of virus definitions)</li></ul>			
Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>• 1-year depot repair service</li><li>• 3-year/1-yr battery depot repair service</li><li>• 3-year/1-yr battery limited onsite service<sup>24</sup></li><li>• 3-year/1-yr battery limited onsite service, IWS (International Warranty Service)<sup>17)</sup></li></ul>			
Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant			